

## SEQUENCE LISTING



*SUB E1 12*  
<110> IMHOF, BEAT ALBET  
AURRAND-LIONS, MICHEL

<120> VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR  
FUNCTION

<130> 11422/0264679

<140> 09/524,531

<141> 2000-03-13

<150> EP 99.200746.8

<151> 1999-03-11

<160> 21

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

<220>

<221> modified\_base

<222> (6)

<223> a, t, c, g, other or unknown

<220>

<221> modified\_base

<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 1

tayagntgyn nngcytcyaa

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<210> 2

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<213> Artificial Sequence

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<223> a, t, c, g, other or unknown

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<223> a, t, c, g, other or unknown

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<223> Description of Artificial Sequence: primer

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

<400> 5

cgacaggtgt cagataaca

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<210> 6

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

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<211> 18

<212> DNA

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<223> Description of Artificial Sequence: primer used  
for detection of JAM-2 transcript

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<210> 8

<211> 16

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer used  
for detection JAM-2 transcript

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Hprt cDNA

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<213> Mus musculus

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gaatgtgttt ggaatcagca tttataaaaa aacccaaatc agaaaggta aattgcttgc 1500

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tgggaagagg gctctgaccc agaaaactct cttcccaag agatgccagg agataggaga 1560  
 acctgtctgt cttaaatgtctg aaatggtaact gaagtctcct tttctattgg tcttgcttat 1620  
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 <212> DNA  
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 <212> PRT  
 <213> *Mus musculus*

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His Phe Phe Leu Leu Leu Phe Arg Gly Cys Met Ile Glu Ala Val  
 20 25 30

Asn Leu Lys Ser Ser Asn Arg Asn Pro Val Val His Glu Phe Glu Ser  
 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr His Ser Gln Thr Ser Asp Pro Arg  
 50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Gly Gln Thr Thr Tyr Val Tyr Phe  
 Page 4

65

70

75

80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly  
85 90 95

Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile  
100 105 110

Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu  
115 120 125

Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys  
130 135 140

Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys  
145 150 155 160

Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn  
180 185 190

Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala  
195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
210 215 220

Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu  
225 230 235 240

Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu  
245 250 255

Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe  
260 265 270

Ile Ser Ser, Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His  
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Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His  
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Lys Ser Ser Phe Val Ile  
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<210> 14

<211> 298

<212> PRT

<213> Mus musculus

<400> 14

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Leu Ile Val Ala Leu Asp Tyr His Lys Ala Asn Gly Phe Ser Ala Ser  
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Lys Asp His Arg Gln Glu Val Thr Val Ile Glu Phe Gln Glu Ala Ile  
35 40 45

Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp  
Page 5

50

55

60

Lys Lys Val Gly Gln Gly Val Ser Leu Val Tyr Tyr Gln Gln Ala Leu  
65 70 75 80

Gln Gly Asp Phe Lys Asp Arg Ala Glu Met Ile Asp Phe Asn Ile Arg  
85 90 95

Ile Lys Asn Val Thr Arg Ser Asp Ala Gly Glu Tyr Arg Cys Glu Val  
100 105 110

Ser Ala Pro Thr Glu Gln Gly Gln Asn Leu Gln Glu Asp Lys Val Met  
115 120 125

Leu Glu Val Leu Val Ala Pro Ala Val Pro Ala Cys Glu Val Pro Thr  
130 135 140

Ser Val Met Thr Gly Ser Val Val Glu Leu Arg Cys Gln Asp Lys Glu  
145 150 155 160

Gly Asn Pro Ala Pro Glu Tyr Ile Trp Phe Lys Asp Gly Thr Ser Leu  
165 170 175

Leu Gly Asn Pro Lys Gly Gly Thr His Asn Asn Ser Ser Tyr Thr Asn  
180 185 190

Glu His Glu Ser Gly Ile Leu Gln Phe Asn Met Ile Ser Lys Met Asp  
195 200 205

Ser Gly Glu Tyr Tyr Cys Glu Ala Arg Asn Ser Val Gly His Arg Arg  
210 215 220

Cys Pro Gly Lys Arg Met Gln Val Asp Val Leu Asn Ile Ser Gly Ile  
225 230 235 240

Ile Ala Thr Val Val Val Val Ala Phe Val Ile Ser Val Cys Gly Leu  
245 250 255

Gly Thr Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser  
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Phe Gln Lys Gly Ser Pro Ala Ser Lys Val Thr Thr Met Gly Glu Asn  
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Asp Phe Arg His Thr Lys Ser Phe Ile Ile  
290 295

<210> 15  
<211> 310  
<212> PRT  
<213> Homo sapiens

<400> 15  
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
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Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg

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55

60

Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe
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Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
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Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
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Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys
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Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
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Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
					180			185			190				
Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala
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Val	His	Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp
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Ala	Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu
					225			230		235			240		
Asn	Ile	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	Leu	
					245			250			255				
Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	Tyr	Phe
					260			265			270				
Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	Gly	Lys	Pro
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Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly	Asp	Phe	Arg	His
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Lys	Ser	Ser	Phe	Val	Ile										
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&lt;210&gt; 16

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg

1

5

10

15

Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser Ala Pro Ala Glu Gln

20

25

30

Gly Gln Asn Leu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro

35

40

45

Ala Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val  
 50 55 60

Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr  
 65 70 75 80

Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly  
 85 90 95

Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr  
 100 105 110

Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys  
 115 120 125

Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met  
 130 135 140

Gln Val Asp Asp Leu Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val  
 145 150 155 160

Val Ala Leu Val Ile Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln  
 165 170 175

Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser  
 180 185 190

Ser Ser Lys Ala Thr Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys  
 195 200 205

Ser Phe Ile Ile  
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<210> 17

<211> 1296

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: sequence  
surrounding C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

<220>  
<221> MOD\_RES  
<222> (4)  
<223> Any amino acid

<400> 18  
Tyr Arg Cys Xaa Ala Ser  
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<210> 19  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: sequence  
surrounding the C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

<220>  
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<223> Any amino acid

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<210> 20  
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surrounding the C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

<220>  
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<222> (4)  
<223> Any amino acid

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Tyr Tyr Cys Xaa Ala Ser  
1 5

<210> 21  
<211> 300  
<212> PRT

<213> Mus musculus

<400> 21

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Ser Met Ile Leu Gly Ser Leu Val Gln Gly Lys Gly Ser Val Tyr Thr  
20 25 30

Ala Gln Ser Asp Val Gln Val Pro Glu Met Glu Ser Ile Lys Leu Thr  
35 40 45

Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val  
50 55 60

Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala  
65 70 75 80

Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Glu Gly Ile Thr Phe Ser  
85 90 95

Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu  
100 105 110

Glu Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu  
115 120 125

Val Pro Pro Ser Lys Pro Thr Ile Ser Val Pro Ser Ser Val Thr Ile  
130 135 140

Gly Asn Arg Ala Val Leu Thr Cys Ser Glu His Asp Gly Ser Pro Pro  
145 150 155 160

Ser Glu Tyr Ser Trp Phe Lys Asp Gly Ile Ser Met Leu Thr Ala Asp  
165 170 175

Ala Lys Lys Thr Arg Ala Phe His Asn Ser Ser Phe Thr Ile Asp Pro  
180 185 190

Lys Ser Gly Asp Leu Tyr Phe Asp Phe Val Thr Ala Phe Asp Ser Gly  
195 200 205

Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser  
210 215 220

Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val  
225 230 235 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly  
245 250 255

Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly  
260 265 270

Thr Ala Pro Gly Lys Lys Val Ile Tyr Ser Gln Pro Ser Thr Arg Ser  
275 280 285

Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val  
290 295 300

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence  
surrounding the C-terminal cysteine of C2 domain  
(endothelial cell line t-end)

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<221> MOD\_RES

<222> (2)

<223> Arg, Gln, Tyr, Ser

<220>

<221> MOD\_RES

<222> (4)

<223> Any amino acid

<220>

<221> MOD\_RES

<222> (8)

<223> Any amino acid

<400> 22

Tyr Xaa Cys Xaa Ala Ser Asn Xaa Gly

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5